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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently amended) An isolated nucleic acid of any one of (a) to (d) below:
- (a) a nucleic acid comprising a nucleotide sequence encoding a protein comprising the amino acid sequence of any one of SEQ ID NOs:2, 4 [[or]] and 17,
- (b) a nucleic acid comprising a coding region in the nucleotide sequence of any one of SEO ID NOs:1, 3 or 16;
- (c) a nucleic acid encoding a protein that comprises the amino acid sequence of any one of SEQ ID NOs:2, 4 or 17, in which one or more amino acids are replaced, deleted, inserted and/or added and that is functionally equivalent to the protein comprising the amino acid sequence of any one of SEQ ID NOs:2, 4 or and 17, and
- (d)—a nucleic acid that hybridizes under stringent conditions with the nucleic acid comprising the nucleotide sequence of any one of SEQ ID NOs:1, 3 or 16, and that encodes a protein functionally equivalent to the protein comprising the amino acid sequence of any one of SEQ ID NOs:2, 4 or 17.
- 2. (Currently amended) An isolated nucleic acid <u>comprising a nucleotide sequence</u> encoding the amino acid sequence of any one of SEQ ID NOs:2, 4 [[or]] <u>and</u> 17 or a fragment thereof.
 - 3. (Original) A vector into which the nucleic acid of claim 1 is inserted.
 - 4. (Original) A vector into which the nucleic acid of claim 2 is inserted.

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5. (Original) A transformant harboring the nucleic acid of claim 1.

- 6. (Original) A transformant harboring the nucleic acid of claim 2.
- 7. (Original) A transformant harboring the vector of claim 3.
- 8. (Original) A transformant harboring the vector of claim 4.
- 9. (Withdrawn) A substantially purified polypeptide encoded by the nucleic acid of claim 1.
- 10. (Withdrawn) A substantially purified polypeptide encoded by the nucleic acid of claim 2.
- 11. (Withdrawn) A method for producing a polypeptide, the method comprising the steps of culturing the transformant of claim 5 and recovering a polypeptide expressed from the transformant or the culture supernatant thereof.
- 12. (Withdrawn) A method for producing a polypeptide, the method comprising the steps of culturing the transformant of claim 6 and recovering a polypeptide expressed from the transformant or the culture supernatant thereof.
- 13. (Withdrawn) A method for screening for a compound that binds to a polypeptide, the method comprising the steps of:
- (a) contacting a test sample with the polypeptide of claim 9 or a partial peptide thereof,
- (b) detecting a binding activity of the test sample to the polypeptide or the partial peptide thereof, and
 - (c) selecting a compound comprising the binding activity to the polypeptide or the

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partial peptide thereof.

14. (Withdrawn) A method for screening for a compound that binds to a polypeptide, the method comprising the steps of:

- (a) contacting a test sample with the polypeptide of claim 10 or a partial peptide thereof,
- (b) detecting a binding activity of the test sample to the polypeptide or the partial peptide thereof, and
- (c) selecting a compound comprising the binding activity to the polypeptide or the partial peptide thereof.
 - 15. (Withdrawn) An antibody against the polypeptide of claim 9.
 - 16. (Withdrawn) An antibody against the polypeptide of claim 10.
- 17. (Withdrawn) A method of detecting a hemopoietin receptor protein in a test sample, comprising the steps of: contacting a test sample with the antibody of claim 15; and detecting the presence of an immune complex between the antibody and a hemopoietin receptor protein in the test sample.
- 18. (Withdrawn) A method of detecting a hemopoietin receptor protein in a test sample, comprising the steps of: contacting a test sample with the antibody of claim 16; and detecting the presence of an immune complex between the antibody and a hemopoietin receptor protein in the test sample.
- 19. (Withdrawn) A polynucleotide that hybridizes with the nucleic acid comprising the nucleotide sequence of any one of SEQ ID NOs:1, 3 or 16 or the complementary strand thereof and that comprises at least 15 nucleotides.

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20. (New) An isolated nucleic acid comprising a coding region of the nucleotide sequence of any one of SEQ ID NOs:1, 3, and 16.

- 21. (New) A vector into which the nucleic acid of claim 20 is inserted.
- 22. (New) A transformant harboring the nucleic acid of claim 20.
- 23. (New) A transformant harboring the vector of claim 21.
- 24. (New) An isolated nucleic acid comprising a nucleotide sequence encoding a protein that comprises the amino acid sequence of any one of SEQ ID NOs:2, 4, and 17, with a single amino acid replacement, deletion, insertion, or addition, wherein the protein binds to a hematopoietin factor.
 - 25. (New) A vector into which the nucleic acid of claim 24 is inserted.
 - 26. (New) A transformant harboring the nucleic acid of claim 24.
 - 27. (New) A transformant harboring the vector of claim 25.
- 28. (New) A method for producing a polypeptide, the method comprising the steps of culturing the transformant of claim 22 and recovering a polypeptide expressed from the transformant or the culture supernatant thereof.
- 29. (New) A method for producing a polypeptide, the method comprising the steps of culturing the transformant of claim 26 and recovering a polypeptide expressed from the transformant or the culture supernatant thereof.

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30. (New) A method for producing a polypeptide, the method comprising the steps of culturing the transformant of claim 23 and recovering a polypeptide expressed from the transformant or the culture supernatant thereof.

31. (New) A method for producing a polypeptide, the method comprising the steps of culturing the transformant of claim 27 and recovering a polypeptide expressed from the transformant or the culture supernatant thereof.